

10/553431

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AMENDMENT ACCORDING TO ARTICLE 34 (FIRST TIME)

1. (Amended) A video image object recognizing apparatus for determining a candidate for an object which may possibly be present in a captured video image and a range of a captured video image to search for the candidate for the object, from positional information which is information of a position of an object and image capturing information including information for determining an area where an image will be captured, and recognizing whether the object of said candidate is present in said captured video image in said range or not, using visual feature information which is visual feature information of said candidate for the object.

2. (Amended) A video image object recognizing apparatus according to claim 1, wherein said range is determined using at least one of the position, a size, and an image capturing position of said candidate for the object in said captured video image, and a distance between the positions of said objects.

3. (Amended) A video image object recognizing apparatus for estimating a position of an object in a captured video image from positional information which is information of the position of an object and image capturing information including information for determining an area where an image will be captured, and recognizing whether said object is present or not using a difference between visual feature quantities of a partial video image of said captured video image and said object and a difference between the position of said partial video image and said estimated position.

4. (Amended) A video image object recognizing apparatus according to claim 3, wherein error information of said image capturing information is taken into account in recognizing whether said object is present or not.

5. (Amended) A video image object recognizing apparatus according to claim 4, wherein a probability distribution is employed as the difference between the position of said partial video image and said estimated position.

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6. (Amended) A video image object recognizing apparatus according to claim 5, wherein a normal distribution of a variance of an error of said image capturing information is employed as said probability distribution.

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